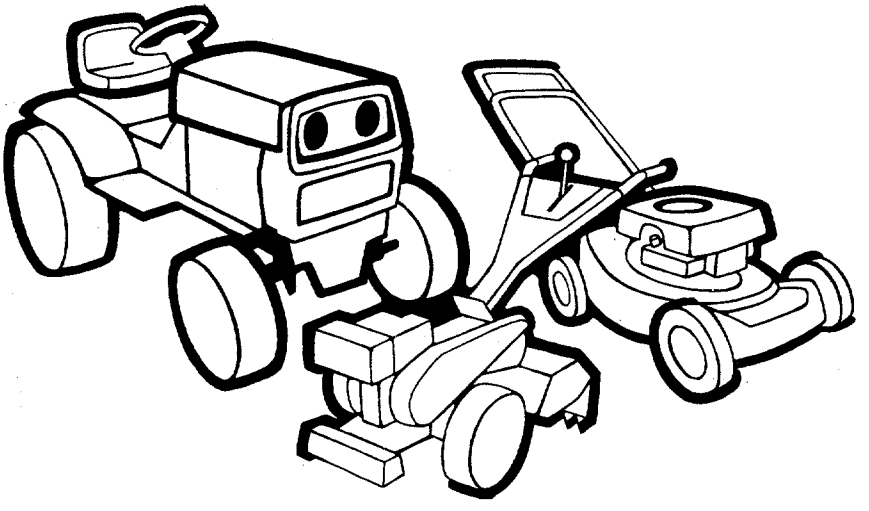
.75

OWNERS MANUAL



22" REAR DISCHARGE ROTARY MOWER

ASSEMBLY
OPERATION
MAINTENANCE
PARTS LIST

Model Number
124-362-000

Important:
Read Safety Rules and Instructions Carefully

Thank you for purchasing an American built product.

PRINTED IN U.S.A.

FORM NO. 770-3157

INDEX

LIMITED WARRANTY

For one year from the date of original retail purchase, MTD PRODUCTS INC will either repair or replace, at its option, free of charge, F.O.B. factory or authorized service firm, any part or parts found to be defective in material or workmanship. Transportation charges for the movement of any power equipment unit or attachment are the responsibility of the purchaser. Transportation charges for any parts submitted for replacement under this warranty must be paid by the purchaser unless such return is requested by MTD PRODUCTS INC.

This warranty will not apply to any part which has become inoperative due to misuse, excessive use, accident, neglect, improper maintenance, alterations, or unless the unit has been operated and maintained in accordance with the instructions furnished. This warranty does not apply to the engine, motor, battery, battery charger or component parts thereof. Please refer to the applicable manufacturer's warranty on these items.

This warranty will not apply where the unit has been used commercially.

Warranty service is available through your local authorized service dealer or distributor. If you do not know the dealer or distributor in your area, please write to the Customer Service Department of MTD.

The return of a complete unit will not be accepted by the factory unless prior written permission has been extended by MTD.

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.

WARNING

This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator.

In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester muffler is available at your nearest engine authorized service center.

WARNING

To reduce the potential for any injury, comply with the following safety instructions. Failure to comply with the instructions may result in personal injury.

SAFE OPERATION PRACTICES FOR WALK-BEHIND MOWERS

TRAINING

1. Read this owner's manual carefully in its entirety before attempting to assemble or operate this machine. Be completely familiar with the controls and the proper use of this machine before operating it. Keep this manual in a safe place for future and regular reference and for ordering replacement parts.
2. Your rotary mower is a precision piece of power equipment, not a plaything. Therefore, exercise extreme caution at all times.
3. Never allow children to operate a power mower. Only persons well acquainted with these rules of safe operation should be allowed to use your mower.
4. Keep the area of operation clear of all persons, particularly small children and pets. Stop engine when they are in the vicinity of your mower. Although the area of operation should be completely cleared of foreign objects, an object may have been overlooked and could be accidently thrown by the mower in any direction and cause serious personal injury to the operator or any others allowed in the area.

PREPARATION

1. Thoroughly inspect the area where the equipment is to be used. Remove all stones, sticks, wire, bones and other foreign objects which could be picked up and thrown by the mower in any direction and cause serious personal injury to the operator or any others allowed in the area.
2. Do not operate equipment when barefoot or wearing open sandals. Always wear substantial footwear.
3. Do not wear loose fitting clothing that could get caught on the mower.
4. Check the fuel before starting the engine. Gasoline is an extremely flammable fuel. Do not fill the gasoline tank indoors, while the engine is running, or while the engine is still hot. Wipe off any spilled gasoline before starting the engine as it may cause a fire or explosion.
5. Disengage the self-propelled mechanism or drive clutch on units so equipped before starting the engine.
6. The blade control handle is a safety device. Never attempt to bypass its operation. Doing so makes the safety device inoperative and may result in personal injury through contact with the rotating blade. The blade control handle must operate easily in both directions.
7. Never attempt to make a wheel or cutting height adjustment while the engine is running.
8. Mow only in daylight or in good artificial light.
9. Never operate the equipment in wet grass. Always be sure of your footing. A slip and fall can cause serious personal injury. Keep a firm hold on the handle and walk, never run.

OPERATION

1. Do not change the engine governor settings or overspeed the engine. Excessive engine speeds are dangerous.
2. Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times as the rotating blade can cause injury.
3. Stop the blade when crossing gravel drives, walks or roads.
4. After striking a foreign object, stop the engine, remove the wire from the spark plug, and thoroughly inspect the mower for any damage. Repair the damage before restarting and operating the mower.
5. If the equipment should start to vibrate abnormally, stop the engine and check immediately for the cause. Vibration is generally a warning of trouble.
6. Shut the engine off and wait until the blade comes to a complete stop before removing the grass catcher or unclogging the chute. The cutting blade continues to rotate for a few seconds after the engine is shut off. Never place any part of the body in the blade area until you are sure the blade has stopped rotating.
7. Before cleaning, repairing or inspecting, make certain the blade and all moving parts have stopped. Disconnect the spark plug wire, and keep the wire away from the spark plug to prevent accidental starting.
8. Do not run the engine indoors.
9. Mow across the face of slopes, never up-and-down. Exercise extreme caution when changing direction on slopes. Do not mow excessively steep slopes. Always be sure of your footing. A slip and fall can cause serious personal injury.
10. Always disconnect electric mowers (line operated) before cleaning, repairing or adjusting.
11. Never operate mower without proper guards, plates or other safety protective devices in place.
12. **DO NOT OPERATE** this mower with the chute door open, unless the complete grass catcher is properly mounted on the mower.

MAINTENANCE AND STORAGE

1. Check the blade and engine mounting bolts at frequent intervals for proper tightness.
2. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
3. Never store the equipment with gasoline in the tank inside of a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.
4. To reduce fire hazard, keep the engine free of grass, leaves, or excessive grease.
5. Check the grass catcher bag frequently for wear or deterioration. For safety protection, replace only with new bag meeting original equipment specifications.

ASSEMBLY INSTRUCTIONS

NOTE

Reference to right or left hand side of the mower is observed from the operating position.

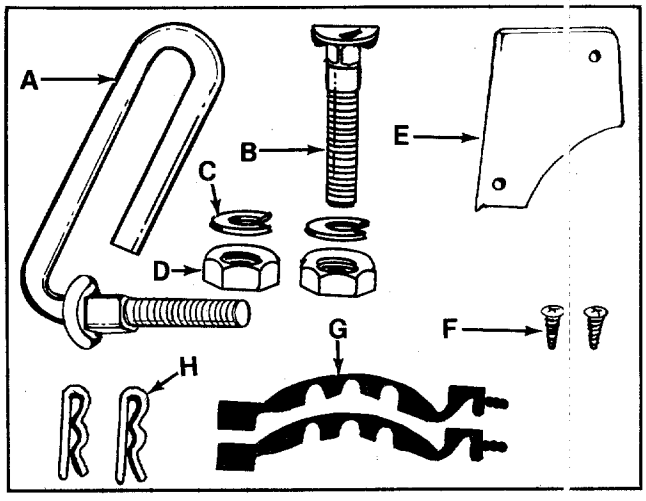


FIGURE 1.

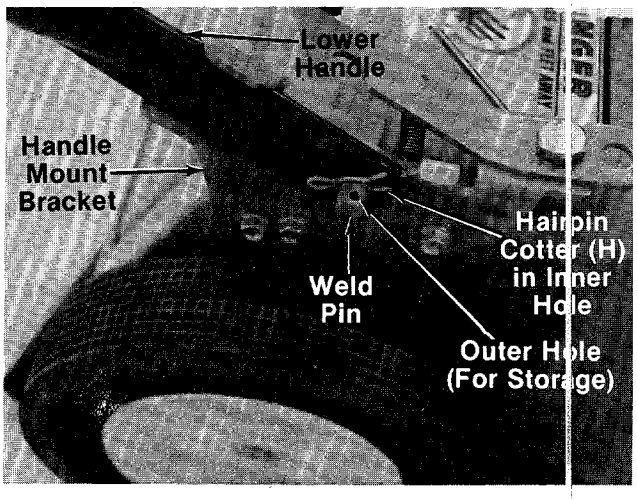


FIGURE 2.

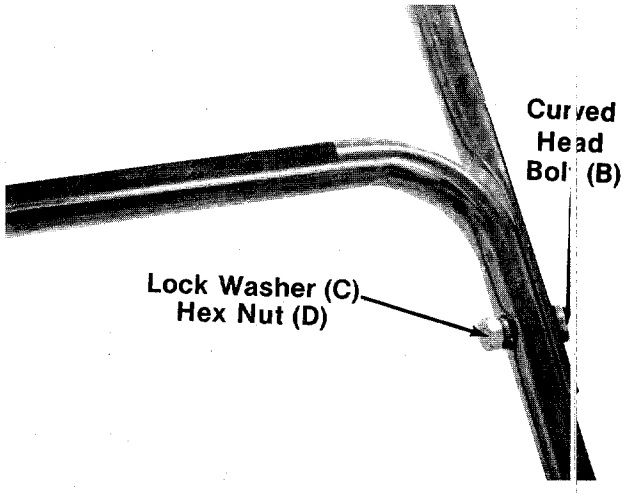


FIGURE 3.

NOTE

This unit is shipped WITHOUT GASOLINE or OIL. After assembly, see separate engine manual for proper fuel and engine oil recommendations.

Contents of hardware pack: (See figure 1)

A (1) Rope Guide Bolt
B (1) Curved Head Carriage Bolt
C (2) Lock Washers 5/16" I.D.
D (2) Hex Nuts 5/16-18 Thread
E (1) Plastic Cap
F (2) Phillips Head Screws
G (2) Cable Ties
H (2) Hairpin Cotters
I (2) Front Hub Caps (Optional)

1. Remove lawn mower and loose parts from carton. Make certain all parts and literature have been removed from the carton before the carton is discarded.
2. Extend all the control cables and place on the floor. Be careful not to bend or kink control cables.
3. Attach the lower handle by placing the bottom holes in the lower handle over the weld pins on the handle mount brackets. Make certain the instruction label on the lower handle can be read from the operating position. Secure with hairpin cotters (H) in inner holes on weld pins. See figure 2.

NOTE

There are two (2) holes in the handle mount brackets. Place the hairpin cotter in the inner hole for operation. Outer hole is for storage.

NOTE

It may be necessary to bend the ends of the lower handle inward slightly to obtain a tight fit against the handle mount brackets.

4. Place the upper handle in position over the lower handle. The control housing must be on the left hand side of the handle. Secure the left hand side of upper handle using the curved head bolt (B), lock washer (C) and hex nut (D) as shown in figure 3.

NOTE

The right hand side of the handle will be secured with the rope guide bolt. However, left handed operators may assemble the rope guide bolt to the left side of the handle for easier starting.

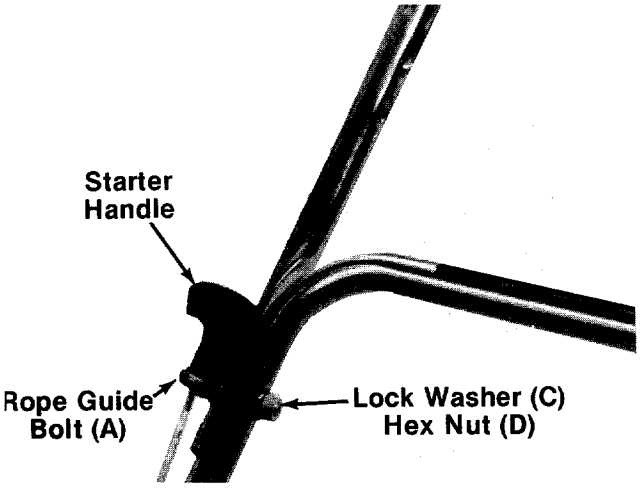


FIGURE 4.

5. Insert the rope guide bolt (A) through the right hand side of upper and lower handle.
6. The starter rope is wound around the starter handle. Maintain the tension on the rope as you unwind it.
7. Slip the starter rope into the rope guide bolt as shown in figure 4. Secure the rope guide bolt with lock washer (C) and hex nut (D). If more slack is needed in the starter rope, disconnect and ground the spark plug wire. Depress the blade control handle and pull additional rope out from the engine.

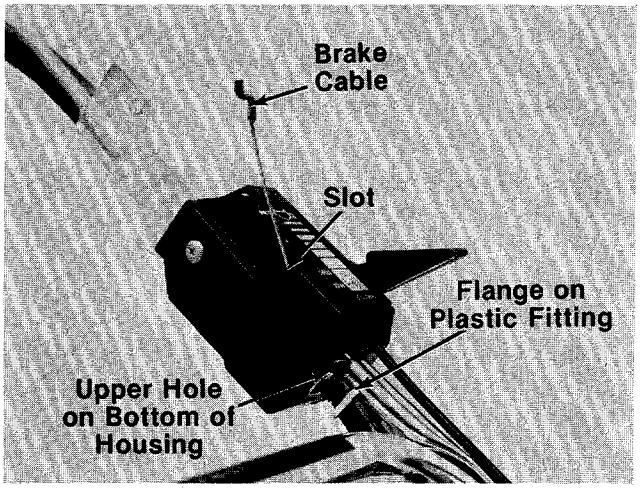


FIGURE 5.

8. The brake cable is attached to the engine, and has a "Z" fitting on the loose end.

   Route the brake cable under the lower handle. Place end of cable into the upper hole on the bottom of the control housing, and through the slot as shown. The angle of the flange on the plastic fitting must be positioned downward as shown in figure 5. Be careful not to bend or kink the cable.

WARNING

Brake cable must be assembled as shown for proper blade brake operation.

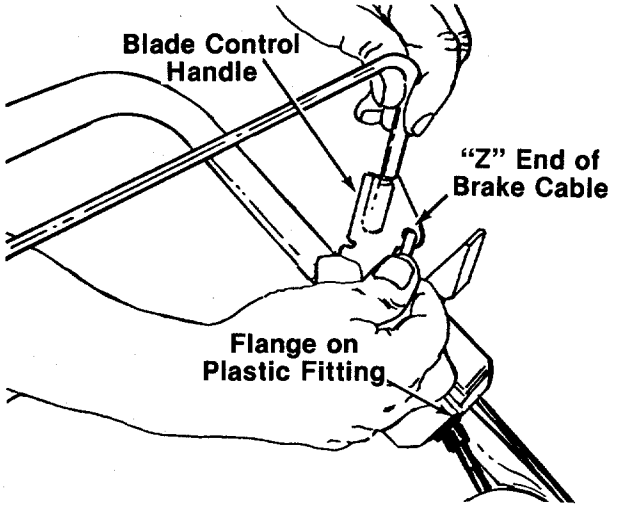


FIGURE 6.

9. Snap the plastic fitting on the end of the cable into the control housing.

   Hook the "Z" end of the brake cable into the hole in the blade control handle. See figure 6. If additional slack is needed in order to hook the cable into the handle, proceed as follows.

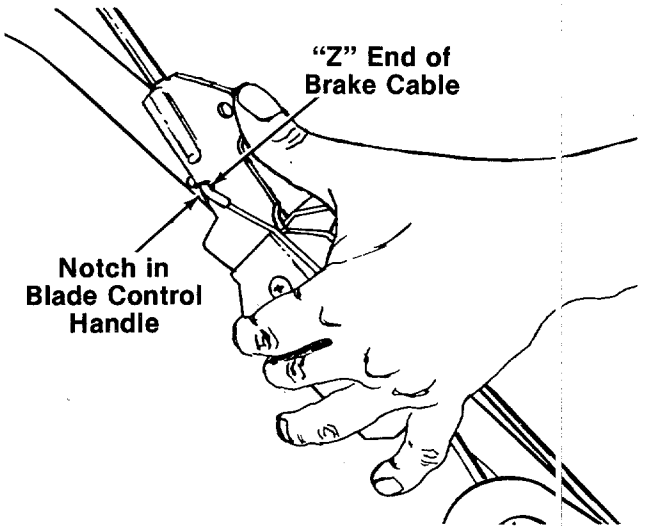


FIGURE 7.

a. Hook the "Z" end of the cable into notch provided in the blade control handle. See figure 7.

b. Squeeze blade control handle against upper handle.

c. Release the blade control handle, unhook the cable from the notch and hook it into the hole in the blade control handle.

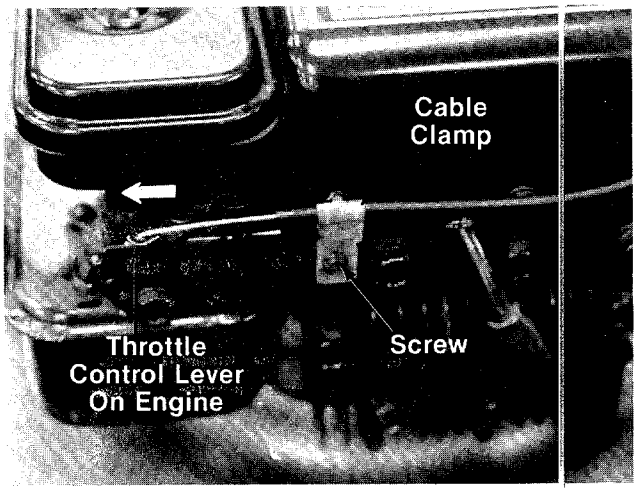


FIGURE 8.

10. Remove the engine shroud if unit is so equipped. Replace it after attaching the throttle control cable to the engine.

11. Place the throttle control lever on the handle in "Fast" position.

12. Push the throttle control lever on the engine to the full open position (as far toward the outside of the unit as it will go) as shown in figure 8.

13. The throttle control cable is attached to the upper handle. Hook the "Z" end of the throttle control cable into the hole in the control lever on the engine.

14. Remove the screw on the cable clamp shown in figure 8. Slip the control casing under the clamp. With the throttle lever on the engine still in the full open position, replace and tighten the screw to secure the throttle control cable.

15. Loosen the screw on the clamp on the side of the engine. Secure the cable **away from the muffler.** Be careful not to bend or kink the cable. Tighten the screw.

16. The drive clutch control cable is attached to the deck. Attach the cable to the lever in the clutch control housing, located in the middle of the upper handle, as follows.

a. Place the lead ball end of the cable into the fitting provided in the end of the clutch control lever. Slip the braided wire into the vertical slot as shown in figure 9.

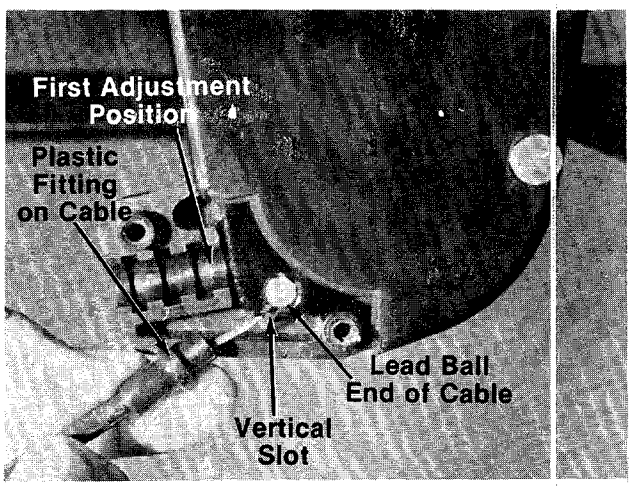


FIGURE 9.

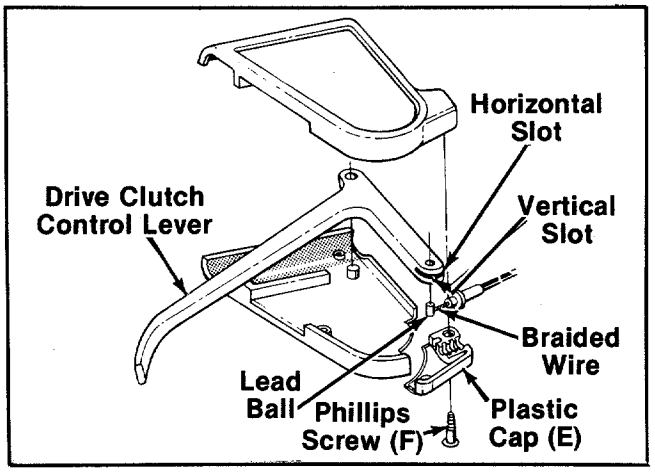


FIGURE 10.

b. Slide the braided wire around in the horizontal slot. See figure 10.

c. Place the plastic fitting on the control cable into the first adjustment position in the clutch control housing. See figure 9.

d. Secure the plastic cap (E) to the clutch control housing using the two Phillips head screws (F). See figure 10.

WARNING

Drive clutch adjustment must be checked before the unit is operated, as described in the operation section.

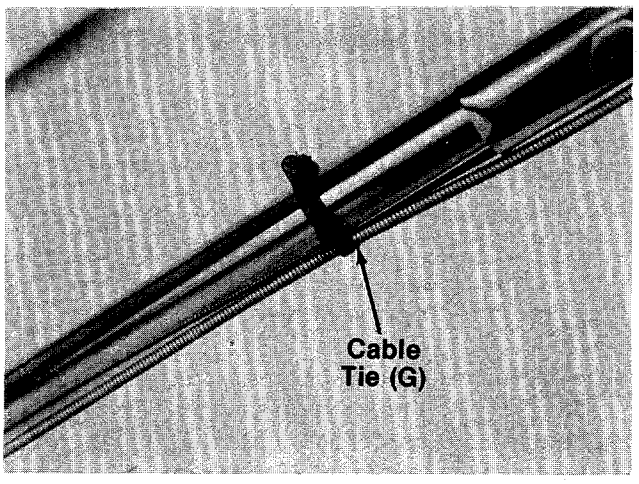


FIGURE 11.

17. Secure control cables to upper and lower handles with cable ties (G). See figure 11.

18. Check **all** nuts and bolts for correct tightness.

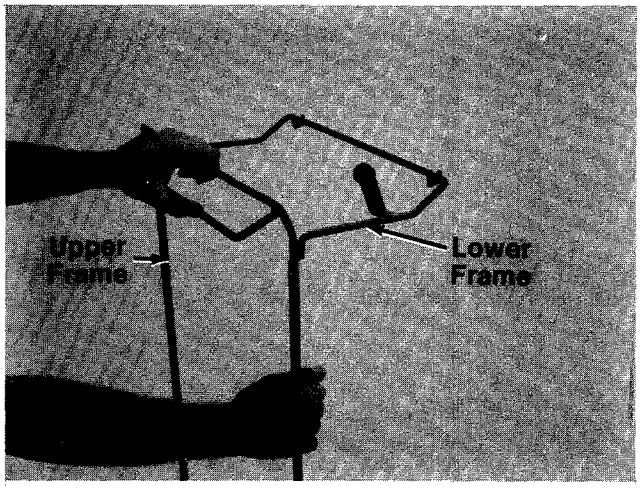


FIGURE 12.

Grass Catcher Assembly

1. Join the upper frame and lower frame assembly as shown in figure 12.

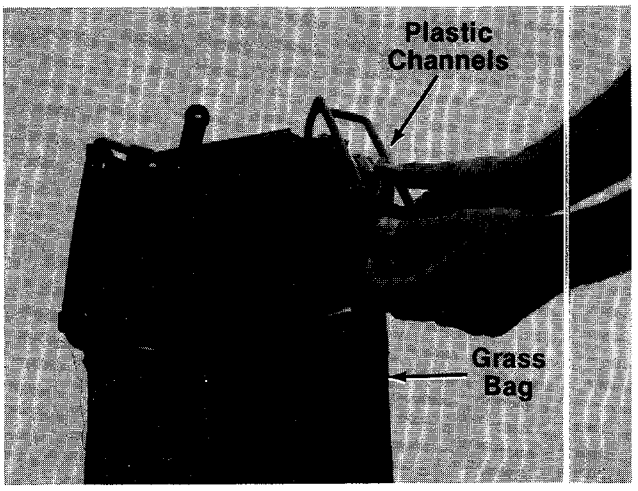


FIGURE 13.

2. Place bag over frame (black plastic side is the bottom of bag). Upper frame goes to the top of bag.
3. Secure bag to frame by slipping plastic channels on bag over frame. See figure 13.

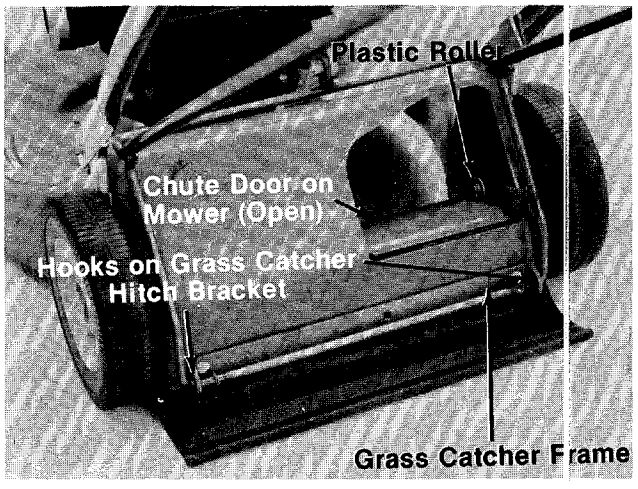


FIGURE 14.

To Attach Bag To Mower

WARNING

DO NOT operate the mower with the chute door open unless the complete grass catcher is properly mounted on the mower.

1. Attach the grass catcher frame to grass catcher hitch bracket on rear of the mower by hooking grass catcher into hooks on grass catcher hitch bracket. See figure 14.
2. Lift the rear of grass catcher up. The roller on the grass catcher will push the chute door on the mower open. See figure 14.

NOTE

Figure 14 is shown with the chute door open for photo clarity only.

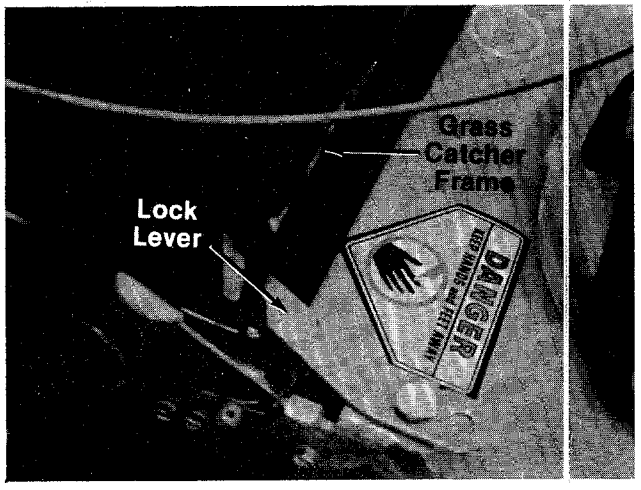


FIGURE 15.

The grass catcher frame will snap into place, secured by the lock lever. See figure 15.

To remove the grass catcher, unhook the lock lever and slip the grass catcher off the unit. See figure 15.

CONTROLS

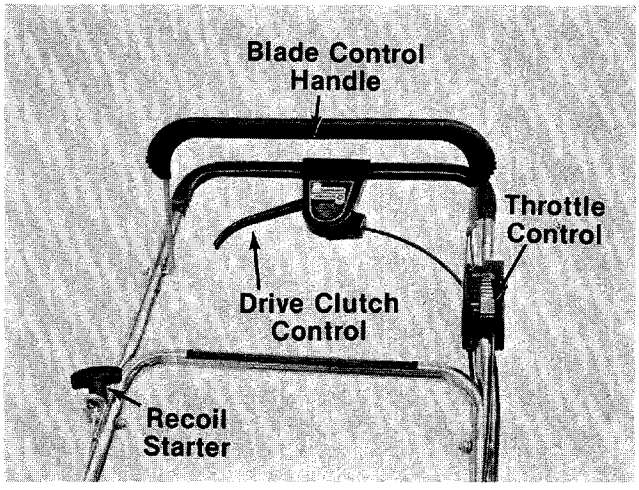


FIGURE 16.
BLADE CONTROL HANDLE

WARNING
THIS CONTROL MECHANISM IS A SAFETY DEVICE. NEVER ATTEMPT TO BYPASS ITS OPERATIONS

The blade control handle is located on the upper handle of the mower. See figure 16. The blade control handle must be depressed in order to operate the unit. Release the blade control handle to stop the engine and blade.

WARNING

The blade will be rotating whenever the engine is running.

THROTTLE CONTROL

The throttle control is located on the left side of the upper handle. It is used to regulate the engine speed. The engine should be started with the engine in the FAST or START position.

WARNING

The throttle control cannot be used to stop the engine.

DRIVE CLUTCH CONTROL

Squeezing the drive clutch control engages the drive mechanism to the rear wheels. Releasing the clutch control stops the rear wheels from driving. Release the drive clutch control to slow down when negotiating an obstacle, making a turn or stopping. See figure 16.

RECOIL STARTER

The recoil starter handle is attached to the handle. See figure 16. Stand behind the unit in the operating position to start the unit.

OPERATION

DO NOT OPERATE THIS MOWER WITH THE CHUTE DOOR OPEN, UNLESS THE COMPLETE GRASS-CATCHER IS PROPERLY MOUNTED ON THE MOWER.

FIGURE 17.

Keep hands and feet away from the chute area on cutting deck. See figure 17.

NOTE

For shipping purposes your mower is set with the wheels in a low cutting height position. For best results raise the cutting position until it is determined which height is best for your lawn. See cutting height adjustment section.

BEFORE STARTING

1. Fill sump with oil as instructed in the separate engine manual packed with your unit.
2. Fill fuel tank, using clean, fresh, lead-free, low-lead or regular grade leaded gasoline. Fill tank completely!

   DO NOT MIX OIL WITH GASOLINE.

3. Attach spark plug wire to spark plug.
4. Before each use, check for proper drive clutch operation by performing the following before starting the engine:

   With the drive clutch control released push mower forward. It should move freely. **Pull mower backward. It should move freely.**

   If it does not and the rear wheels tend to lock up, the clutch may not be releasing completely. Do not start the engine until corrections have been made. Check the control cable for severe bend, kinks and binding, or grass buildup in the pulley groove. Correct and adjust as required.

TO START ENGINE AND ENGAGE BLADE

WARNING

When starting the unit for the first time, face the mower against a solid object such as a wall, fence, etc. Start the unit, and if it shows any signs of motion with the drive clutch control disengaged, shut the engine off immediately. Check the position of the drive clutch control cable. The plastic fitting must be assembled in the first adjustment position inside the housing, all the way to the right, as shown in figure 9.

1. Move the throttle control lever to FAST or START position.
2. Standing behind the unit, depress the blade control handle and hold it against the upper handle as shown in figure 18.

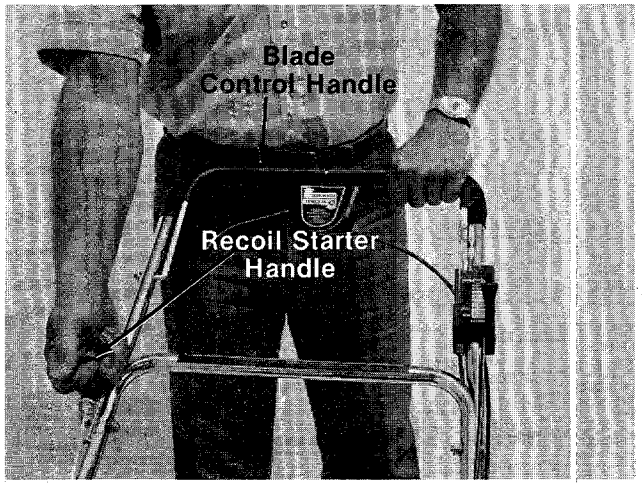


FIGURE 18.

3. Grasp the recoil starter handle as shown and pull up rapidly. Return it slowly to the rope guide bolt.
4. After engine starts, move throttle control to desired engine speed.

TO STOP ENGINE AND BLADE

1. Release the blade control handle to stop the engine and blade.

WARNING

The blade continues to rotate for a few seconds after the engine is shut off.

2. Disconnect the spark plug wire and ground it against the engine to prevent accidental starting while equipment is unattended.

USING YOUR ROTARY MOWER

WARNING

DO NOT operate the mower with the chute door open unless the complete grass catcher is properly mounted on the mower.

Be sure that lawn is clear of stones, sticks, wire, or other objects which could damage lawn mower or engine. Such objects could be accidently thrown by the mower in any direction and cause serious personal injury to the operator and others.

Operate a new engine at intermediate speeds and light load for the first few hours as you would a new automotive engine.

For the best results, do not cut wet grass because it tends to stick to the underside of the mower, preventing proper discharge of grass clippings, and could cause you to slip and fall. New grass, thick grass or wet grass may require a narrower cut. Blade speed should be adjusted to the condition of the lawn.

For best results, cut off one-third or less of the total length of the grass. Lawn should be cut in the fall as long as there is growth.

This mower is designed to be operated at full throttle to give you the best cut and do the most effective job of bagging the cut grass.

IMPORTANT

If you strike a foreign object, stop the engine. Remove wire from spark plug, thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower. Extensive vibration of the mower during operation is an indication of damage. The unit should be promptly inspected and repaired.

ADJUSTMENTS

CAUTION

Do not at any time make any adjustment to lawn mower without first stopping engine and disconnecting spark plug wire.

DRIVE CLUTCH CONTROL ADJUSTMENT

If the unit does not self-propel with the drive clutch control engaged, remove the plastic cap from beneath the drive clutch control housing. Move the plastic fitting on the control cable to the next adjustment position on the left. Reassemble the plastic cap and retest. See figure 19.

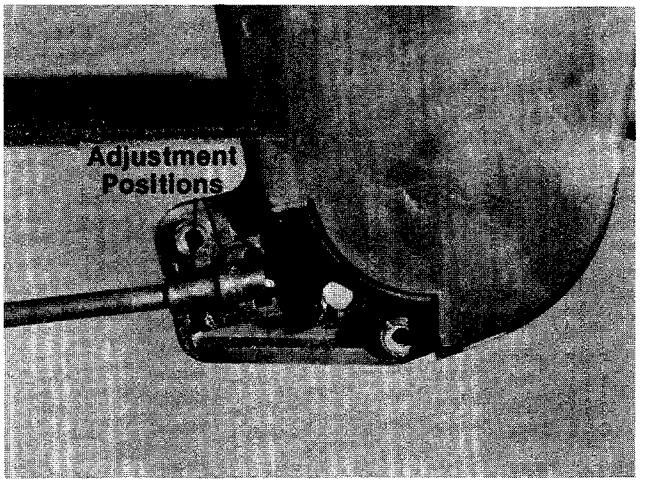


FIGURE 19.

CUTTING HEIGHT ADJUSTMENT

An adjusting plate and thumb lever at each wheel position provides cutting height adjustment. Each adjusting plate has five holes. Height of cut will be changed when the thumb lever is moved from one hole to another. Simply depress the lever towards wheel and move wheel and lever assembly to desired position. See figure 20.

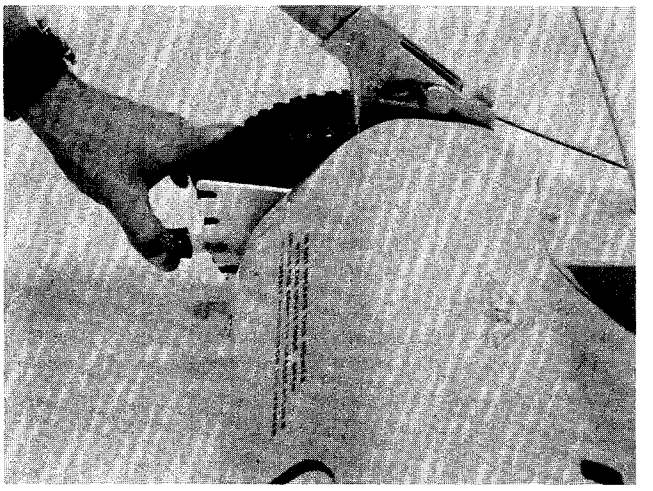


FIGURE 20.

Cutting height will be raised as front and rear levers are lowered. Cutting height will be lowered as front and rear levers are raised. All wheels must be placed in the same relative position.

For rough or uneven lawns, move the wheels to a position which will give a higher cutting height.

THROTTLE

If adjustment becomes necessary, the throttle control wire assembly can be reset as follows:

1. Loosen, but do not remove, the screw securing throttle control wire assembly at engine. See figure 8.
2. Move throttle control lever on handle to "FAST" position.
3. Move control lever on engine to full open position. Retighten screw to secure throttle control wire assembly.

CARBURETOR ADJUSTMENTS

WARNING

If any adjustments are made to the engine while the engine is running (e.g. carburetor), keep clear of all moving parts. Be careful of heated surfaces and muffler.

Minor carburetor adjustments may be required to compensate for differences in fuel, temperature, altitude and load.

To adjust carburetor, refer to the separate engine manual packed with your mower.

LUBRICATION

IMPORTANT

Always stop engine and disconnect spark plug wire before cleaning, lubricating or doing any kind of work on lawn mower.

Blade Control—Lubricate the pivot points on the blade control handle and the brake cable at least once a season with light oil. See figure 21. The blade control must operate freely in both directions.

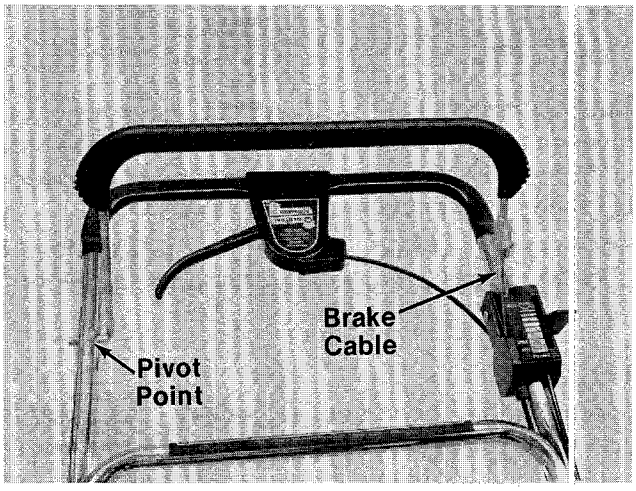


FIGURE 21.

Discharge Chute Door Mechanism—The torsion spring and pivot point should be lubricated periodically with light oil to prevent any rust or binding. Door must work freely.

Wheels—Mower may be provided with ball bearing wheels. Lubricate at least once a season with light oil. Also, if the wheels are removed for any reason, lubricate the surface of the axle bolt and the inner surface of the wheel with light oil. A 4 oz. plastic bottle of light oil lubricant is available. Order part number 737-0170. Engine oil may also be used.

Engine—Follow engine manual for lubrication instructions.

Throttle—Periodically lubricate throttle control lever and throttle wire assembly with a few drops of light oil for ease of operation.

Chain—Periodically lubricate the chain with appropriate chain lubricant. A stiff or rusted chain can be restored by removing the master link, soaking the chain in kerosene or a solvent, letting it air dry and wiping the chain with a rag saturated with lubricant.

If the rotary mower is operated in a sandy area, the chain should not be lubricated with oil. Excessive oil on a chain will collect dirt and cause excessive wear on the chain and sprockets.

MAINTENANCE

CAUTION

When tipping the unit, empty the fuel tank and keep engine spark plug side up.

CUTTING BLADE

A. Removal for Sharpening or Replacement

WARNING

Be sure to disconnect and ground the spark plug wire before working on the cutting blade to prevent accidental engine starting.

Remove the large bolt and lock washer which holds the blade and adapter to the engine crankshaft. Remove the blade and adapter from the crankshaft.

If the blade or blade adapter needs replacing, remove the two small bolts, lock washers and nuts which hold the blade to the adapter.

CAUTION

Periodically inspect the blade adapter for cracks, especially if you strike a foreign object. Replace when necessary.

B. Sharpening

Remove the cutting blade by following the directions of the preceding section.

When sharpening the blade, follow the original angle of grind as a guide. It is **extremely important** that each cutting edge receives an equal amount of grinding to prevent an unbalanced blade. An unblanced blade will cause excessive vibration when rotating at high speeds, may cause damage to the mower and could break, causing personal injury.

It is recommended that the blade always be removed from the adapter for the best test of balance. The blade can be tested by balancing it on a round shaft screwdriver. Remove metal from the heavy side until it balances evenly.

C. Reassembly

Before reassembling the blade and the blade adapter to the unit, lubricate the engine crankshaft and the inner surface of the blade adapter with light oil. Lubricating the bolt holes, bolts and inner surface of the nuts with light oil is also recommended. A 4 oz. plastic bottle of light oil lubricant is available. Order part number 737-0170. Engine oil may also be used.

When replacing the blade, be sure to install the blade with the side of the blade marked "Bottom" (or with part number) facing the ground when the mower is in the operating position.

Blade Mounting Torque

3/8" Dia. Bolt 375 in. lb. min., 450 in. lb. max.
5/16" Dia. Bolt 150 in. lb. min., 250 in. lb. max.

To insure safe operation of your unit, **all** nuts and bolts must be checked periodically for correct tightness.

DECK

The underside of mower deck should be cleaned after each period of use as grass clippings, leaves, dirt and other matter will accumulate. This accumulation of grass clippings, etc., is undesirable as it will invite rust and corrosion and may cause an uneven discharge of grass clippings at the next cutting.

Pay particular attention to the area of the rear baffle and chain. Grass may accumulate in this area and must be cleaned out periodically to prevent possible problems with the clutch engagement.

The deck may be cleaned by tilting the mower forward or on its side and scraping clean with a suitable tool or by washing with a stream of water from a garden hose.

CAUTION

Do not direct the stream of water at a hot engine as damage to the engine may result.

ENGINE OIL

Check oil level before starting engine and after every 5 hours of operation. ADD oil as necessary to keep level to full mark on dipstick. Before removing dipstick, clean area around dipstick to prevent dirt from entering oil fill tube. Engine should be in a level position when checking oil.

Change oil after first 5 hours of operation. Thereafter change every 25 hours. Change oil while engine is warm. Oil may be drained thru oil drain on bottom of the engine. Oil capacity 1-1/4 pints.

AIR CLEANER

Service air cleaner every 25 hours under normal conditions. Clean every few hours under extremely dusty conditions. Poor engine performance and flooding usually indicates that the air cleaner should be serviced.

To service the air cleaner, refer to the separate engine manual packed with your unit.

SPARK PLUG

The spark plug should be cleaned and the gap reset once a season. Spark plug replacement is recommended at the start of each mowing season; check engine manual for correct plug type and gap specifications.

BELT REMOVAL AND REPLACEMENT

1. Disconnect the spark plug wire and ground it.
2. Drain the fuel tank or place a piece of plastic film beneath the cap to prevent gasoline leakage.
3. Remove the three screws which hold the belt guard (and idler assembly). See figure 22.

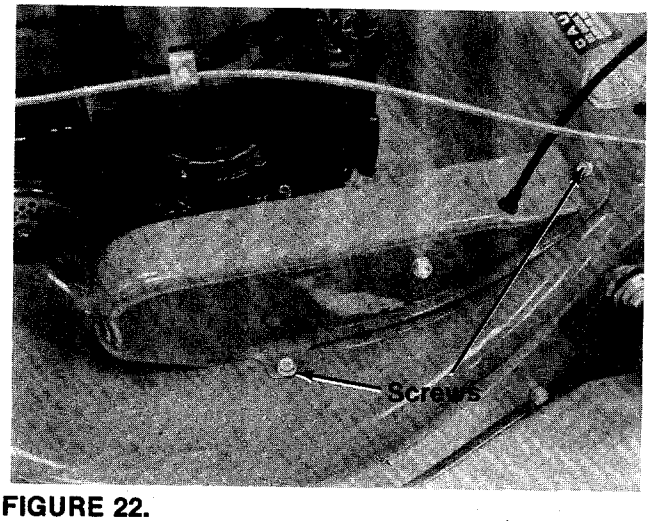


FIGURE 22.

4. Remove the belt from the idler as you lift off the belt guard.
5. Remove hex nut and belleville washer from height adjustment lever on left side of mower as shown in figure 23.

NOTE

There is another belleville washer, located between the pivot bracket and the deck. Make certain to reassemble one belleville washer on each side of the pivot bracket, with the cupped side of both washers toward the pivot bracket.

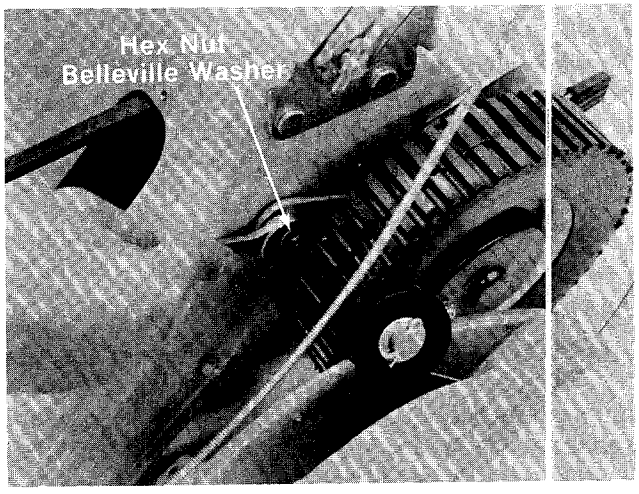


FIGURE 23.

6. Place the mower on its side.

WARNING

Make sure that the mower is secure and cannot tip over.

7. Remove two screws, nuts and lock washers. Remove one hex nut and lock washer from cover plate. See figure 24.

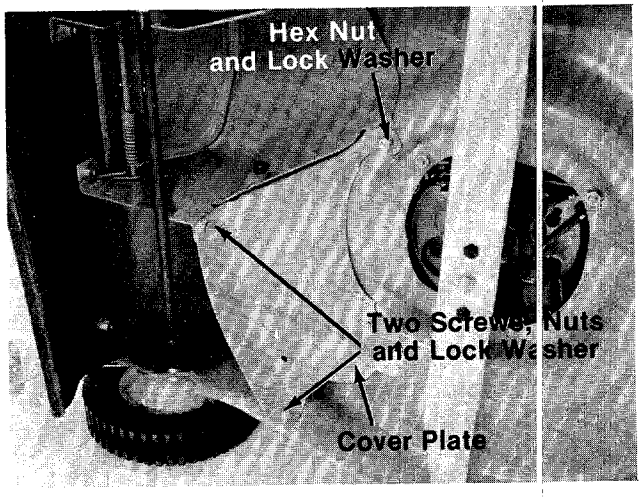


FIGURE 24.

8. Remove the cover plate.
9. Remove the master link from the chain. See figure 25.

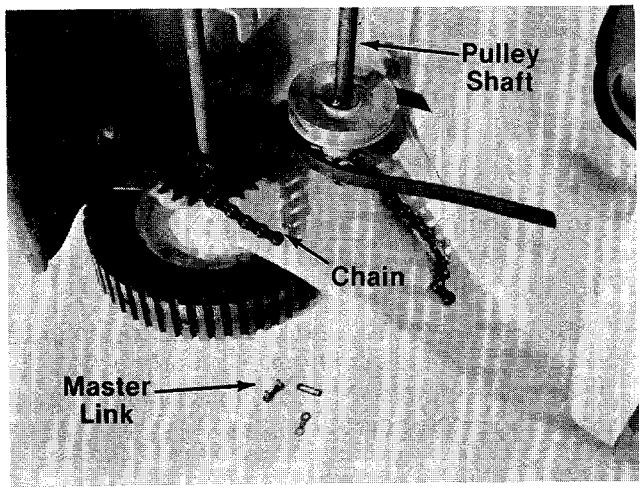


FIGURE 25.

10. Remove the chain, pulley shaft and belt.
11. Reassemble in reverse order with the new belt, making certain the idler pulley is under the belt. See figure 26.

NOTE

When reinstalling the chain, be sure the closed end of the master link clip faces in the direction of chain travel.

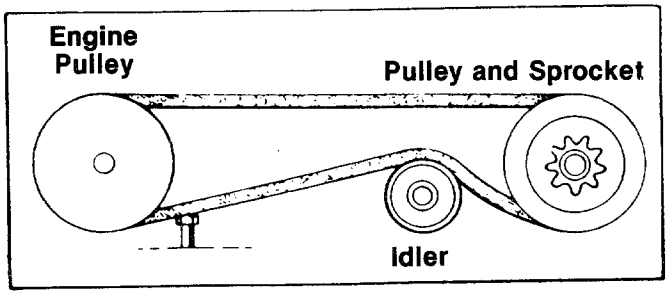


FIGURE 26.

OFF-SEASON STORAGE

The following steps should be taken to prepare lawn mower for storage.

1. Clean and lubricate mower thoroughly as described in the lubrication instructions.
2. Refer to engine manual for correct engine storage instructions.
3. Coat mower's cutting blade with chassis grease to prevent rusting.
4. Store mower in a dry, clean area.

CAUTION

When storing any type of power equipment in an unventilated or metal storage shed, care should be taken to rust proof the equipment. Using a light oil or silicone, coat the equipment, especially cables and all moving parts.

HANDLE STORAGE

The handle may be placed in an upright position for storage.

Move hairpin cotters to outer hole on weld pins. See figure 2. Press outward on the bottom of the lower handle and push forward. The handle will lock in this position.

To place the handle in the operating position, remove the starter rope from the rope guide bolt. Grasp the lower handle at the bottom, pull apart slightly and tip the handle backward. Place the cotter hairpins in the inner holes. With the spark plug wire disconnected and grounded, depress the blade control handle and pull the starter rope out from the engine. Slip the starter rope into the rope guide bolt.

NOTE

The use of any accessory on this Rotary Mower other than those manufactured by the mower manufacturer is **not** recommended.

GRASS CATCHER Model 028 is available as replacement equipment for the mower shown in this manual.

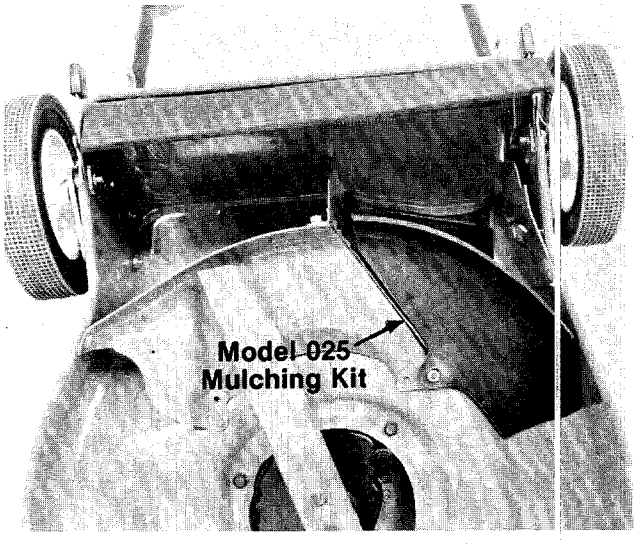
WARNING

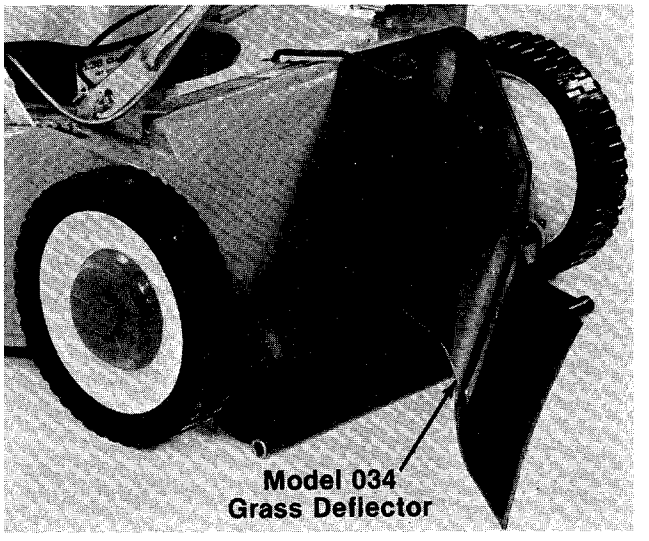
1. DO NOT operate the mower with the chute door open unless the complete grass catcher is properly mounted on the mower.
2. DO NOT operate the mower without the protective shield on the rear of the deck in place.

NOTE

Under normal usage bag material is subject to wear and should be checked periodically. Be sure any replacement bag complies with the mower manufacturer's recommendations.

For replacement bags, use only factory authorized replacement bag No. 764-0171.





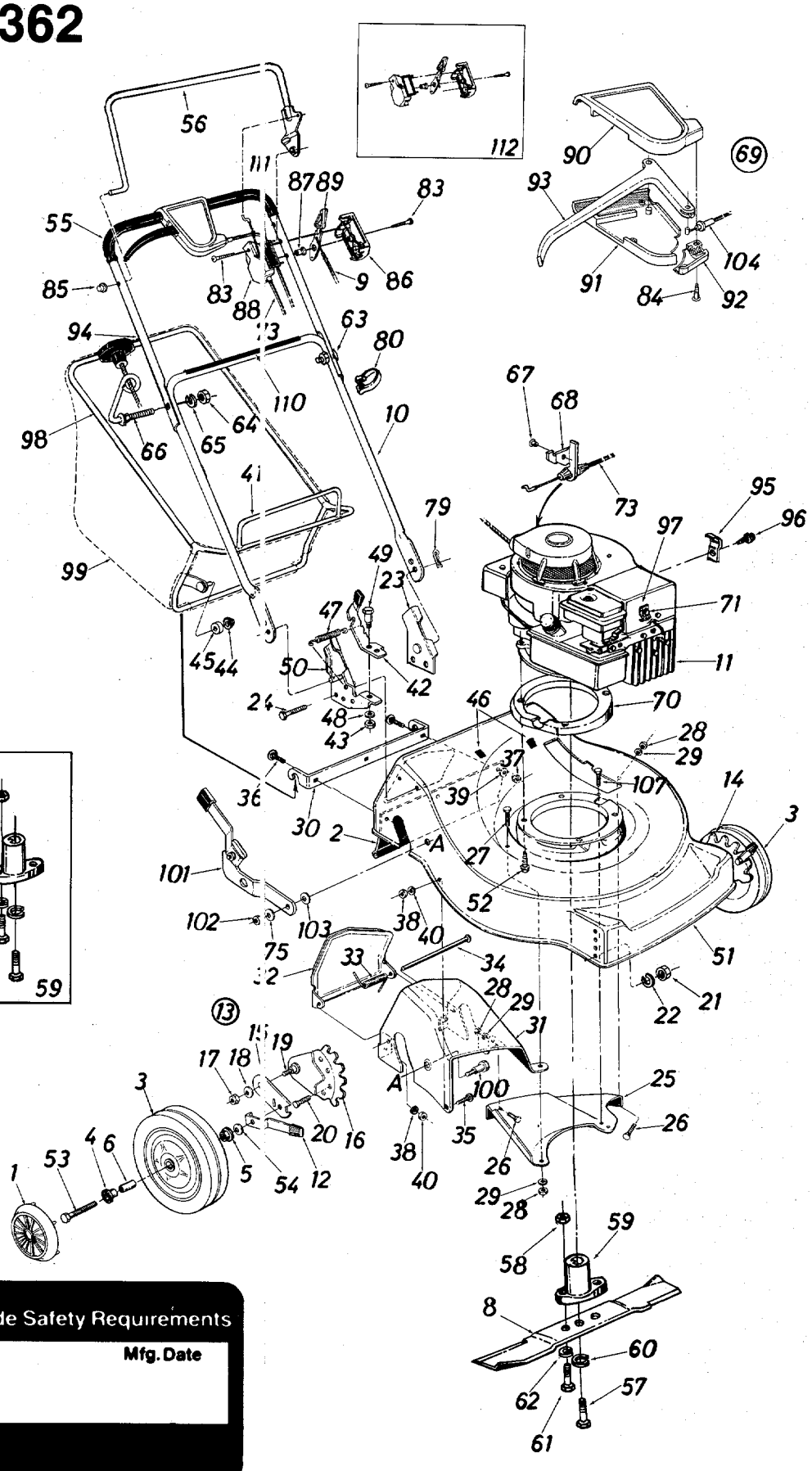
Mulching Kit model 194-025-000 and Grass Deflector model 194-034-000 are available as optional equipment.

Trouble Shooting Chart

Problem	Cause	Remedy
1 Engine fails to start	A Blade control handle disengaged	A Engage blade control handle.
	B Check fuel tank for gas	B Fill tank if empty.
	C Spark plug lead wire disconnected.	C Connect lead wire.
	D Throttle control lever not in the starting position	D Move throttle lever to start position.
	E Faulty spark plug	E Spark should jump gap between control electrode and side electrode. If spark does not jump, replace the spark plug.
	F Carburetor improperly adjusted, engine flooded	F Remove spark plug, dry the plug, crank engine with plug removed, and throttle in off position. Replace spark plug and lead wire and resume starting procedures.
	G Old stale gasoline	G Drain and refill with fresh gasoline.
	H Engine brake engaged	H Follow starting procedure.
2 Hard starting or loss of power	A Spark plug wire loose	A Connect and tighten spark plug wire.
	B Carburetor improperly adjusted	B Adjust carburetor. See separate engine manual.
	C Dirty air cleaner	C Clean air cleaner as described in separate engine manual.
3 Operation erratic	A Dirt in gas tank	A Remove the dirt and fill tank with fresh gas.
	B Dirty air cleaner	B Clean air cleaner as described in separate engine manual.
	C Water in fuel supply	C Drain contaminated fuel and fill tank with fresh gas.
	D Vent in gas cap plugged	D Clear vent or replace gas cap.
	E Carburetor improperly adjusted	E Adjust carburetor. See separate engine manual.
4 Occasional skip (hesitates) at high speed	A Carburetor idle speed too slow	A Adjust carburetor. See separate engine manual.
	B Spark plug gap too close	B Adjust to .030".
	C Carburetor idle mixture adjustment improperly set	C Adjust carburetor. See separate engine manual.
5 Idles poorly	A Spark plug fouled, faulty, or gap too wide	A Reset gap to .030" or replace spark plug.
	B Carburetor improperly adjusted	B Adjust carburetor. See separate engine manual.
	C Dirty air cleaner	C Clean air cleaner as described in separate engine manual.
6 Engine overheats	A Carburetor not adjusted properly	A Adjust carburetor. See separate engine manual.
	B Air flow restricted	B Remove blower housing and clean as described in separate engine manual.
	C Engine oil level low	C Fill crankcase with the proper oil.
7 Excessive vibration	A Cutting blade loose or unbalanced	A Tighten blade and adapter. Balance blade.
	B Bent cutting blade	B Replace blade.

Note: For repairs beyond the minor adjustments listed above, contact your local authorized service dealer.

Model 362



Meets CPSC Blade Safety Requirements

Lot/Model	Mfg. Date

Model 362 PARTS LIST FOR MODEL 362 ROTARY MOWER

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	†		Hub Cap	
2	731-0582		Rear Flap Ass'y.	
3	**		Front Wheel Ass'y	
4	**		Bearing	
5	**		Bearing	
6	**		Spacer (Used w/Ball Brg. Only)	
8	742-0125		22" Blade	
9	746-0472		Throttle Control Wire—58"	
10	749-0505		Lower Handle	
11	—		Engine	
12	10531		Spring Lever Ass'y.	
13	12322		Height Adjuster—R.H.	
14	12321		Height Adjuster—L.H.	
15	10619		Pivot Bar	
16	12323		Index Plate	
17	712-0375		Hex Lock Nut 3/8-16 Thd.	
18	736-0255		Belleville Washer	
19	738-0269		Shoulder Bolt	
20	710-0216		Hex Bolt 3/8-16 x .75" Lg.*	
21	712-0798		Hex Nut 3/8-16 Thd.*	
22	736-0169		L-Wash. 3/8" I.D.*	
23	12297		Handle Bracket—L.H.	
24	710-0776		Hex Self-Tap Screw ¼" x .62" Lg.	
25	14014		Rear Baffle—L.H.	
26	710-0167		Carriage Bolt ¼-20 x .50"	
27	710-0206		Hex Bolt ¼-20 x .88" Lg.*	
28	712-0287		Hex Nut ¼-20 Thd.*	
29	736-0329		L-Wash. ¼" I.D.*	
30	14012		Hitch Bracket	
31	14235		Rear Chute Baffle	
32	13407		Chute Door	
33	732-0346		Torsion Spring	
34	738-0386		Hinge Pin	
35	710-0167		Carr. Bolt ¼-20 x .50" Lg.	
36	710-0703		Carr. Bolt ¼-20 x .75" Lg.	
37	712-0271		Sems Nut ¼-20 Thd.	
38	712-0287		Hex Nut ¼-20 Thd.*	
39	736-0211		Flat Wash. .285" I.D.	
40	736-0329		L-Wash. ¼" I.D.*	
41	14582		Catcher Lower Frame	
42	14845		Lock Lever	
43	712-0267		Hex Nut 5/16-18 Thd.*	
44	726-0100		Push Cap	
45	731-0430		Plastic Roller	
46	731-0564		Plug	
47	732-0357		Extension Spring	
48	736-0119		L-Wash. 5/16" I.D.*	
49	738-0155		Shoulder Bolt	
50	14592		Handle Bracket—R.H.	
51	14905	—462	22" Deck Ass'y.	N
52	710-0654		Hex Self-Tap Screw 3/8-16 x 1.00" Lg.	
53	**		Axle Bolt	
54	736-0105		Belleville Washer	
55	718-0145		Grip	
56	14321		Control Handle	
	731-0609		Control Handle w/Plastic	
57	710-0331		Hex Bolt 3/8-24 x 2.25"	
58	712-0123		Hex Nut 5/16-24 Thread	
59	753-0348		Blade Adapter Kit	
60	736-0217		L-Wash. 3/8" I.D.—H.D.	
61	710-0888		Hex Bolt 5/16-24 x 1.00"	
62	736-0119		L-Wash. 5/16" I.D.*	
63	710-0671		Carr. Bolt 5/16-18 x 1.38"	
64	712-0267		Hex Nut 5/16-18 Thd.*	
65	736-0119		L-Wash. 5/16" I.D.*	
66	710-0842		Rope Guide Bolt	
67	728-0171		Pop Rivet	
68	14924		Control Bracket	
69	753-0362		Clutch Control Housing Comp.	N
70	13773		Engine Mount Cover	
71	710-0227		Hex AB-Tap Scr. #8 x .38"	
73	746-0477		Control Cable—43"	
75	736-0105		Belleville Washer	
79	714-0104		Cotter Pin 5/16	
80	726-0192		Cable Tie	
83	710-0796		Truss Mach. Scr. #12 x 1.5"	
84	710-0841		Self-Tap Scr. #10 x 1.0" Lg.	
85	726-0135		Cap Speed Nut	
86	731-0523		Control Panel Half	
87	731-0524		Control Disc Pin	
88	731-0526		Clutch Panel Half	
89	731-0528		Throttle Control Lever	
90	731-0617		Control Cover Half—Upper	
91	731-0618		Control Cover Half—Lower	
92	731-0619		Cable Mounting Cap	
93	731-0620		Control Lever	
94	749-0437		Upper Handle	
95	12894		Casing Clamp	
96	710-0429		Hex B-Tap Scr. #10 x .38"	
97	751-0369		Casing Clamp	N
98	749-0278		Catcher Upper Frame	
99	746-0171		Grass Bag	
100	738-0430		Shoulder Bolt	
101	14926		Pivot Bracket—R.H.	
102	712-0342		Hex Jam Nut 3/8-16 Thd.	
103	736-0219		Belleville Washer	
104	746-0463		Clutch Cable—50"	
107	710-0642		Hex Self-Tap Screw ¼-20 x .75" Lg.	
108	731-0630		Shroud (Not Shown)	
110	777-3455		Instruction Label—Handle	
111	777-3458		Control Label—Throttle	
112	753-0360		Control Housing Comp.	
—	8362-000-4		Hardware Pack	

**FRONT WHEEL CHART

Wheel Assembly (8 x 1.75)				
Smooth	Waffle Tread	Twinline Tread	Bearings	Axle Bolt
734-0843	734-0894	734-0661	Plastic—741-0262	738-0102
734-0845	734-0645	734-0643	3/8" Ball—741-0267 1/2" Ball—741-0484 Spacer—750-0434	710-0427

†Front Hub Caps (Optional)

Color	Part No.
Red	731-0124
Orange	731-0254
Black	731-0354
Gray	731-0355

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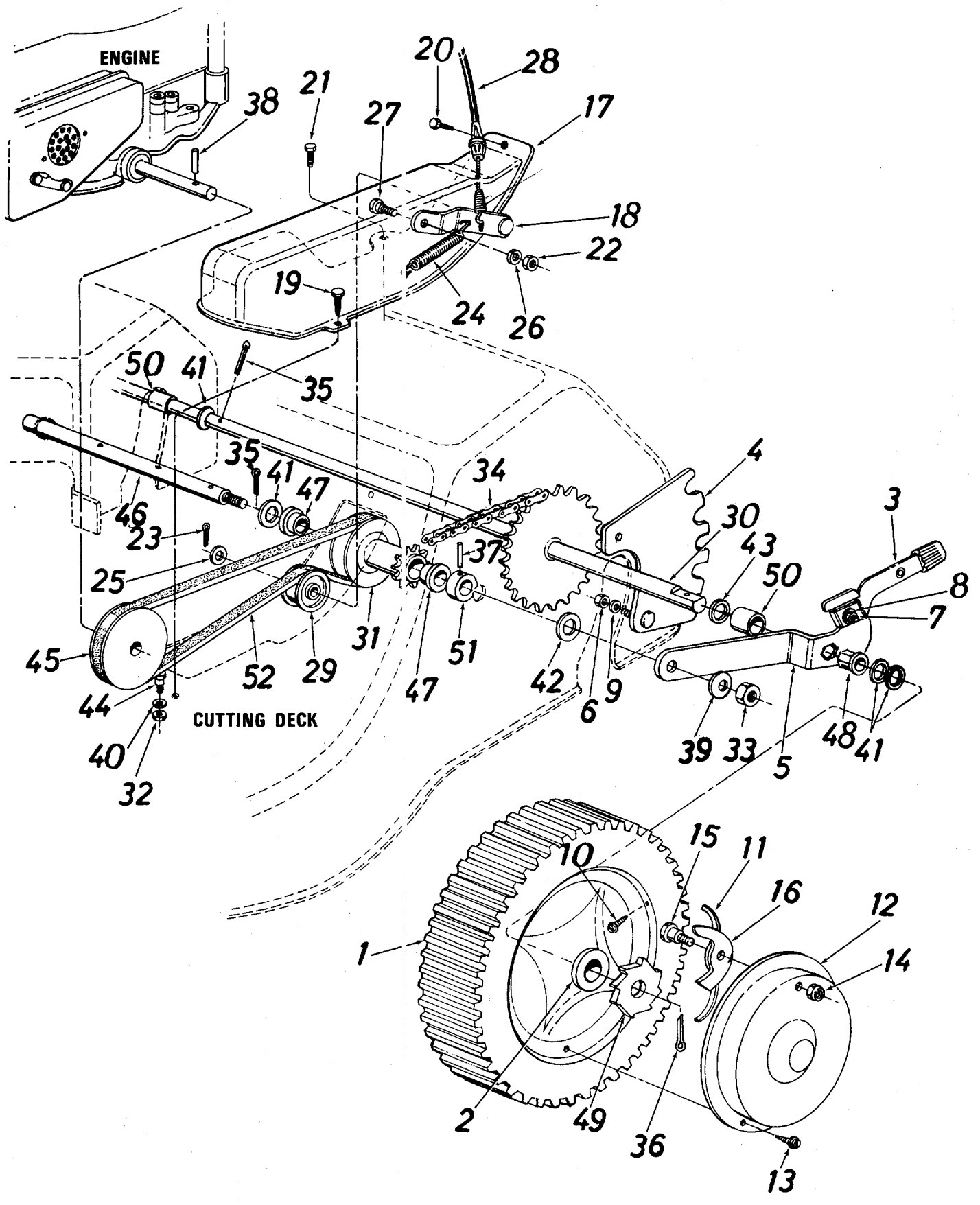
ENGINE
CUTTING DECK
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PARTS LIST FOR MODEL 362 ROTARY MOWER

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	734-0880		Wheel Ass'y. Comp. 8.0 x 1.75	
2	741-0262		Flange Brg.—Plastic ½" I.D.	
3	10531		Spring Lever Ass'y. w/Knob	
4	10641		Index Plate Ass'y.—L.H.	
	10642		Index Plate Ass'y.—R.H. (Not Shown)	
5	14927		Pivot Brkt. Ass'y.—L.H.	
	14926		Pivot Brkt. Ass'y.—R.H. (Not Shown)	
6	712-0267		Hex Nut 5/16-18 Thd.*	
7	712-0342		Hex Jam Nut 3/8-16 Thd.*	
8	736-0105		Bell-Wash. .44" I.D. x .88" O.D.	
9	736-0119		L-Wash. 5/16" I.D.*	
10	710-0200		Hex Wash. Hd. Self-Tap Scr. Type "A" #8 x .50" Lg.	
11	10622		Nylon Spring	
12	10647		Hub Cap	
13	710-0748		Pan Hd. Tap Scr. #12 x .50" Lg.	
14	712-0324		Hex Ins. L-Nut ¼-20 Thd.	
15	738-0137		Shld. Bolt .342" Dia. x .268	
16	748-0188		Pawl	
17	12309		Belt Cover	
18	13415		Idler Bracket Ass'y.	
19	710-0599		Hex Wash. Hd. Self-Tap Scr. ¼-20 x .50" Lg.	
20	710-0456		Hex Drilling Scr. #10 x .50" Lg.	
21	710-0642		Hex TT-Tap Scr. ¼-20 x .75" Lg.	
22	712-0287		Hex Nut ¼-20 Thd.*	
23	714-0115		Cotter Pin 1/8" Dia. x 1.00" Lg.*	
24	732-0357		Extension Spring .33" O.D. x 1.12" Lg.	
25	736-0160		Fl-Wash. .531" I.D. x .930" O.D.	
26	736-0329		L-Wash. ¼" I.D.*	
27	738-0255		Shld. Bolt .375" Dia. x .181	
28	746-0463		Clutch Cable—50"	
29	756-0360		Flat Idler—Plastic	
30	13414		Rear Shaft Ass'y.	
31	756-0191		Pulley w/9 Tooth Sprocket Ass'y.	
32	712-0267		Hex Nut 5/16-18 Thd.*	
33	712-0342		Hex Jam Nut 3/8-16 Thd.	
34	713-0144		#48 Chain ½" Pitch x 31 Links	
	713-0122		Master Link	
35	714-0111		Cotter Pin 3/32" Dia. x 1.00" Lg.*	
36	714-0115		Cotter Pin 1/8" Dia. x 1.00" Lg.*	
37	715-0120		Spring Pin Spir. 3/16" Dia. x 1.00" Lg.	
38	715-0144		Spring Pin Spir. 3/16" Dia. x 1.50" Lg.	
39	736-0105		Bell-Wash. .400" I.D. x .88" O.D.	
40	736-0119		L-Wash. 5/16" I.D.*	
41	736-0160		Fl-Wash. .531" I.D. x .930" O.D.	
42	736-0219		Bell-Wash. .400" I.D. x 1.13" O.D.	
43	736-0326		Fl-Wash. .510" I.D. x 1.0" O.D.	
44	738-0141		Shld. Bolt .437" Dia. x .350" Lg.	
45	756-0384		Engine Pulley	
46	738-0471		Pulley Shaft—10.0" Lg.	
47	741-0248		Flange Brg. .506" I.D. Plastic	
48	741-0324		Hex Flange Brg. x .506" I.D. Plastic	
49	748-0187		Ratchet	
50	750-0190		Spacer .765" I.D. x .89" O.D. x .960" Lg.	
51	750-0387		Spacer .505" I.D. x .88" O.D. x .44" Lg.	
52	754-0252		"V"-Belt ½" x 33" Lg.	

*For faster service obtain standard nuts, bolts, and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

(462—Red Flake)

When ordering parts, if color or finish is important, use the appropriate color code shown above. (e.g. Red Flake Finish—14005 (462).)

NOTE

This instruction manual covers various models and all specifications shown do not necessarily apply to your model. Specifications subject to change without notice or obligation.

NOTE: The engine is not under warranty by the mower manufacturer...If repairs or service is needed on the engine, please contact your nearest authorized engine service outlet. Check the "Yellow Pages" of your telephone book under "Engines—Gasoline."

PARTS INFORMATION

POWER EQUIPMENT PARTS AND SERVICE

Parts and service are available through the authorized service firms listed below. All orders should specify the model number of your unit, part numbers, description of parts and the quantity of each part required.

BRIGGS AND STRATTON, TECUMSEH AND PEERLESS PARTS AND SERVICE

Briggs & Stratton, Tecumseh and Peerless parts and service should be handled by your nearest authorized engine service firm. Check the yellow pages of your telephone directory under the listing **Engines—Gasoline,** Briggs & Stratton or Tecumseh Lauson.

NOTE: If any parts are found to be missing or defective upon assembly of this unit, write to advise the factory so that immediate replacement can be made.

ALABAMA	**BIRMINGHAM**	
Auto Electric & Carburetor Co.	2625 4th Ave. S.	35233
ARKANSAS	**NORTH LITTLE ROCK**	
Sutton's Lawn Mower Shop	5301 Roundtop Drive Box 368, Rt. 4	72117
CALIFORNIA	**PORTERVILLE**	
Billious	75 North D Street	93257
COLORADO	**DENVER**	
Spitzer Industrial Products Co.	6601 N. Washington St.	80229
FLORIDA	**JACKSONVILLE**	
Radco Distributors	4909 Victor St. Box 5459	32207
	OPA LOCKA	
Small Eng. Dist.	2351 N.W. 147th St.	33054
GEORGIA	**EAST POINT**	
East Point Cycle & Key	2834 Church St.	30344
ILLINOIS	**LYONS**	
Keen Edge Co.	8615 Ogden Ave.	60534
INDIANA	**ELKHART**	
Parts & Sales Inc.	2101 Industrial Pkwy.	46516
IOWA	**DUBUQUE**	
Power Lawn & Garden Equip.	2551 J.F. Kennedy	52001
LOUISIANA	**NEW ORLEANS**	
Suhren Engine Co.	8330 Earhart Blvd.	70118
MARYLAND	**TAKOMA PARK**	
Center Supply Co.	6867 New Hampshire Ave.	20912
MASSACHUSETTS	**SPRINGFIELD**	
Morton B. Collins Co.	300 Birnie Ave.	01107
MICHIGAN	**LANSING**	
Lorenz Service Co.	2500 S. Pennsylvania	48910
	MOUNT CLEMENS	
Power Equipment Dist.	340 Hubbard	48043
MINNESOTA	**HOPKINS**	
Hance Distributing Inc.	420 Excelsior Ave. W.	55343
MISSISSIPPI	**BILOXI**	
Biloxi Sales & Service, Inc.	506 Caillavet St.	39533
MISSOURI	**KANSAS CITY**	
Automotive Equip. Service	3117 Holmes St.	64109
	ST. JOSEPH	
Ross-Frazier Supply Co.	8th and Monterey	64503
	ST. LOUIS	
Henzler, Inc.	2015 Lemay Ferry Rd.	63125
NEW JERSEY	**BELLMAWR**	
Lawnmower Parts Inc.	717 Creek Rd.	08030
NEW MEXICO	**ALBUQUERQUE**	
Spitzer Eng. & Parts	1023 Third Ave. N.W	87103
NEW YORK	**CARTHAGE**	
Gamble Dist., Inc.	West End Ave.	13619
NORTH CAROLINA	**GOLDSBORO**	
Smith Hardware Co.	515 N. George St.	27530
	GREENSBORO	
Dixie Sales Company	335 N. Green	27402
OHIO	**CARROLL**	
Stebe's Mid-State Mower Supply	Box 366, 71 High St.	43112
	CLEVELAND	
Bleckrie, Inc.	7900 Lorain Ave.	44102
	WADSWORTH	
National Central	687 Seville Rd.	44281
	YOUNGSTOWN	
Burton Supply Co.	1301 Logan Ave. Box 929	44501
OKLAHOMA	**MUSKOGEE**	
Victory Motors, Inc.	605 S. Cherokee	74401
OREGON	**PORTLAND**	
Kenton Supply Co.	8216 N. Denver Ave.	97217
PENNSYLVANIA	**HARRISBURG**	
EECO Inc.	4021 N. 6th St.	17110
	PHILADELPHIA	
Thompson Rubber Co.	5222-24 N. Fifth St.	19120
	PITTSBURGH	
Bluemont Co.	11125 Frankstown Rd.	15235
	PUNXSUTAWNEY	
Frank Roberts & Sons	R.D. 2	15767
	SCRANTON	
Scranton Auto Ignition Co.	1133-35 Wyoming Ave.	18509
TENNESSEE	**KNOXVILLE**	
Master Repair Service	2000 Western Ave.	37921
	MEMPHIS	
American Sales & Service, Inc.	3035-43 Bellbrook	38116
TEXAS	**DALLAS**	
Marr Brothers, Inc.	423 E. Jefferson	75203
	FORT WORTH	
Woodson Sales Corp.	1702 N. Sylvania	76111
	HOUSTON	
Bullard Supply Co.	2409 Commerce St.	77003
	SAN ANTONIO	
Engine House Inc.	8610 Botts Lane P.O. Box 17867	78217
UTAH	**SALT LAKE CITY**	
A-1 Engine & Mower Co.	439 E. 900 So.	84111
VIRGINIA	**ASHLAND**	
RBI Corp.	101 Cedar Ridge Dr.	23005
WASHINGTON	**SEATTLE**	
Bailey's Inc.	1414 14th Ave.	98122
WISCONSIN	**APPLETON**	
Automotive Supply Co.	123 S. Linwood Ave. P.O. Box 798	54911
	CHILTON	
Horst Dist.	444 N. Madison	53014

WARRANTY PARTS AND SERVICE POLICY (0783)

The purpose of warranty is to protect the customer from defects in workmanship and materials, defects which are NOT detected at the time of manufacture. It does not provide for the unlimited and unrestricted replacement of parts. Use and maintenance are the responsibility of the customer. The manufacturer cannot assume responsibility for conditions over which it has no control. Simply put, if it's the manufacturer's fault, it's the manufacturer's responsibility; if it's the customer's fault, it's the customers's responsibility.

CLAIMS AGAINST THE MANUFACTURER'S WARRANTY INCLUDES:

1. **Replacement of Missing Parts** on new equipment.
2. **Replacement of Defective Parts** within the warranty period.
3. **Repair of Defects** within the warranty period.

All claims MUST be substantiated with the following information:

1. **Model Number** of unit involved.
2. **Date** unit was purchased or first put into service.
3. **Date of failure.**
4. **Nature of failure.**